

FIG. 1

NUCLEOTIDE AND AA SEQUENCE

Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

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GACCACGGCCCTGCAGCCCCAGCCAGGCCTGAGGACATGAGGGGGCGGGGGGTGCCGC
TCCCTGCTGCTGTGTTGGGTCTCAGAGGGCCAAGGCAGCAACAGCCTGTGGTCGCC
CCAGGATGCTGAACCGAATGGTGGGGGGCAGGACACGCAGGAGGGCGAGTGGCCCTGGC
AAGTCAGCATCCAGGGCAACCGAACCCACTCTGCGGGGGCAGCCTCATCGGGAGCAGT
GGGTCTGACGGCTGCGCACTGCTTCCGAAACACCTCTGAGACGTCCCTGTACCGAGTCC
TGCTGGGGCAAGGCAGCTAGTGCAGCCGGACACGCTATGTATGCCGGGTGAGGC
AGGTGGAGAGCAACCCCTGTACCAAGGGCACGGCCTCCAGCGCTGACGTGGCCCTGGTGG
AGCTGGAGGCACCACTGCCCCCTACCAATTACATCCTCCCCGTGTCCTGCCTGACCCCT
CGGTGATCTTGAGACGGGATGAACGCTGGTCACTGGCTGGGGCAGCCCCAGTGAGG
AAGACCTCCCTGCCGAACCGGGATCCTGCAGAAACTCGCTGTGCCATCATCGACACAC
CCAAGTGCAACCTGCTCTACAGCAAAGACACCGAGTTGGCTACCAACCCAAAACCATCA
AGAATGACATGCTGTCGCGCCGGCTCGAGGAGGGCAAGAAGGATGCCTGCAAGGGCGACT
CGGGCGGCCCCCTGGTGTGCCTCGTGGTCAGTCGTGGCTGCAAGGGGGTIGATCAGCT
GGGTGAGGGCTGTCGCCCCAGAACCGCCCAGGTGTCTACATCCGTGTCACCGCCACC
ACAACGGATCCATCGGATCATCCCCAACTGCAGTTCCAGCCAGCGAGGTTGGCGGGCC
AGAAGTGAGACCCCCGGGCCAGGAGCCCCTTGAGCAGAGCTCTGCACCCAGCCTGGCC
CCACACCATCCTGCTGGTCCTCCAGCGCTGCTGTGCAACCTGTGAGCCCCACAGACT
CATTGTAAATAGCGCTCCTCCCTCCATCAAATACCCTTATTTATTTATGTTCTC
CCAATAAAACCCAGCCTGTGTGCCAGCTG

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>Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

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MRRPAAVPLLLLLCFGSQLAKAATACGRPRMLNRMVGGQDTQEGEWPWQVSIQRNGSHFC
GGSLIAEQWLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGTA
SSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWTGWGSPSEEDLLEPRILQK
LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNMDLCAGFEEGKKDACKGDSGGPLVCLVGQS
WLQAGVISWGEGCARQNRPGVYIRVTAAHHNWIHRIIPKLQFQPARLGGQK

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FIG. 2

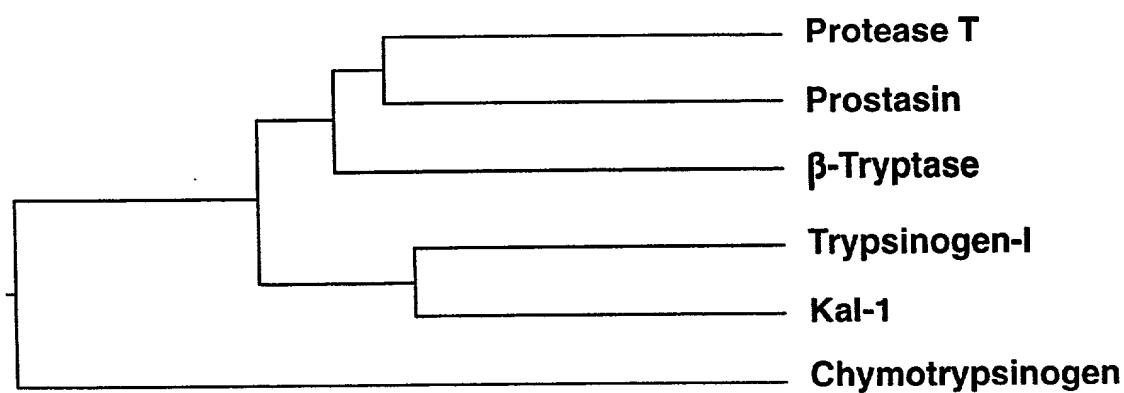


FIG. 3

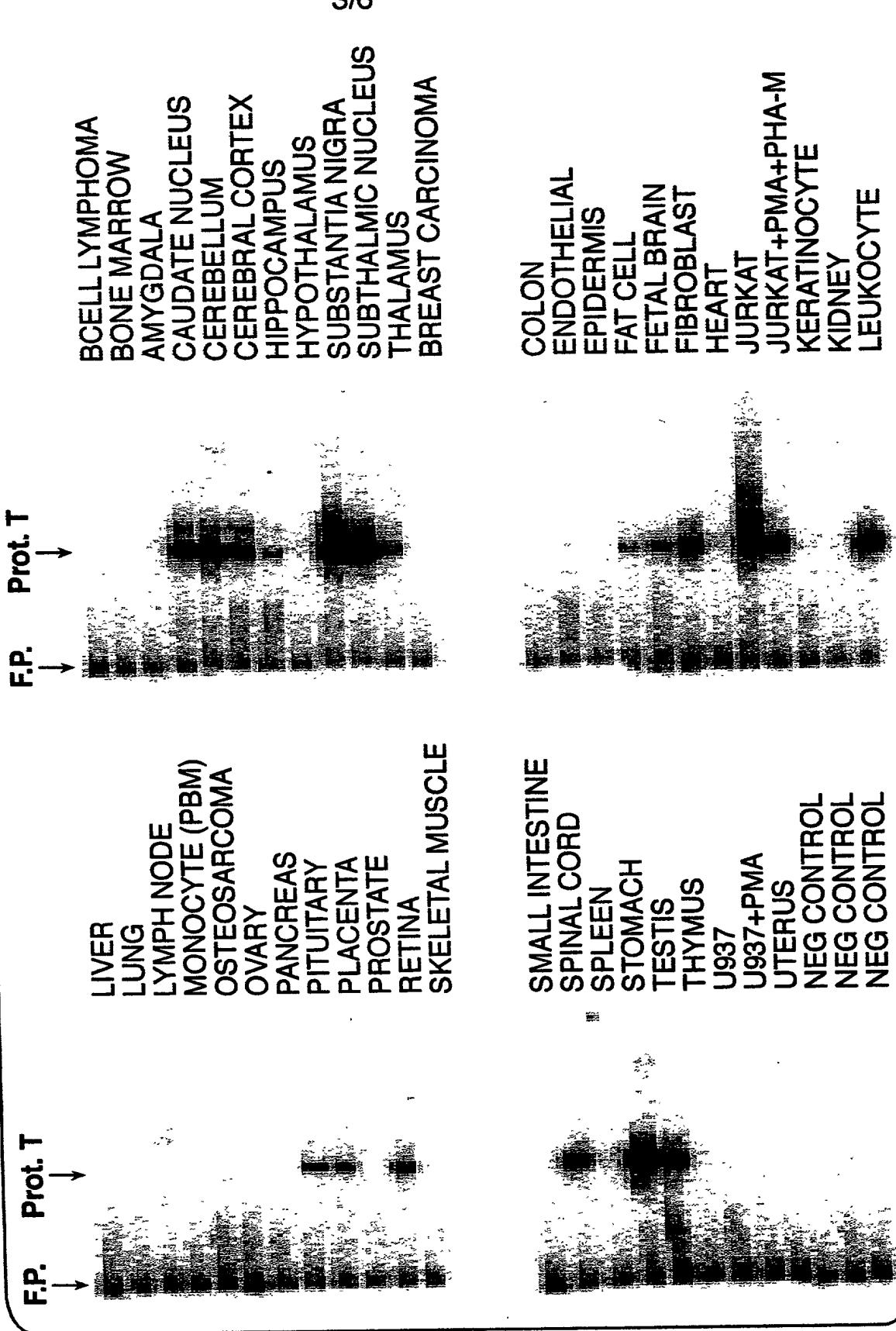


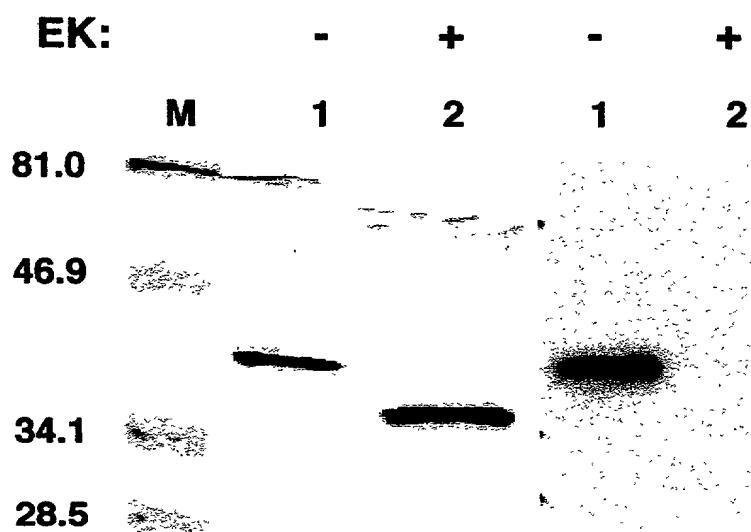
FIG. 4**FUSION PROTEIN**

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:8).

GAATTCAACCACCATGGACAGCAAAGGTTCGTCGCAGAAATCCCGCCTGCTCCTGCTGCTG
GTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGCTCCGACTACAAGGACGACGACGAC
GTGGACGCGGCCGCTCTGCTGCCCTTGATGATGATGACAAGATCGTGGGGCTAT
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGAACGGAAGCCACTTC
TGCGGGGGCAGCCTCATCGCGGAGCAGTGGGCTCTGACGGCTGCGCAGTGCCTCCGCAAC
ACCTCTGAGACGTCCCTGTACCAAGGTCTGCTGGGGCAAGGCAGCTAGTGCAGCCGGGA
CCACACGCTATGTATGCCCGGGTGAGGCAGGTGGAGAGCAACCCCTGTACCAAGGGCACG
GCCTCCAGCGCTGACGTGGCCCTGGTGGAGCTGGAGGCACCAGTGCCTTCACCAATTAC
ATCCTCCCCGTGTGCCCTGCCCTGACCCCTCGGTGATCTTGAGACGGCATGAACGTCTGG
GTCACTGGCTGGGCAGCCCCAGTGAGGAAGACCTCCTGCCCGAACCGCGGATCCTGCAG
AAACTCGCTGTGCCCATCATGACACACCCAAGTGCAACCTGCTCTACAGCAAAGACACC
GAGTTTGGCTACCAACCCAAAACCATCAAGAATGACATGCTGTGCCCGGCTTCGAGGAG
GGCAAGAAGGATGCCCTGCAAGGGCGACTCGGGCGCCCTGGTGTGCCCTGTGGGTCA
TCGTGGCTGCAGGGGGGTGATCAGCTGGGTGAGGGCTGTGCCCGCCAGAACCGCCA
GGTGTCTACATCCGTGTCACCGCCCACCAACTGGATCCATCGGATCATCCCCAAACTG
CAGTTCCAGCCAGCGAGGTGGCGCCAGAAGTCTAGACATCACCACCACTCACTAG
CGGCCGCTCCCTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGATAACATTGATG
AGTTTGGACAAACCAACTAGAATGCAGTAAAAAAATGCTTATTGTGAAATTGAC
ATGCTATTGCTTATTGTAACCATTATAAGCTGCAATAAACAGTTGAC

Amino Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVSNLLLCQGVVSDYKDDDDVDAAALAAPFDDDKIVGGYALEE
GEWPWQVSIQRNGSHFCGGSLIAEQWLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW
GSPSEEDLILPEPRIQLQKLAVPIIDTPKCNLLYSKDTFEGYQPKTIKNDMLCAGFEEGKKD
ACKGDGGPLVCLVGQSWLQAGVISWGEGLCARQNRPGVYIRVTAAHHNWIHRIIPKLQFQP
ARLGGQKSRRHHHHHH

FIG. 5

Protease: PFEK-Protease T-HIS

FIG. 6**Protease Activity of Protease T**

□ H-D-Pro-HHT-Arg-pNA
▨ H-D-Lys(CBO)-Pro-Arg-pNA
▨ H-DL-Val-Leu-Arg-pNA

